

FIG. 2

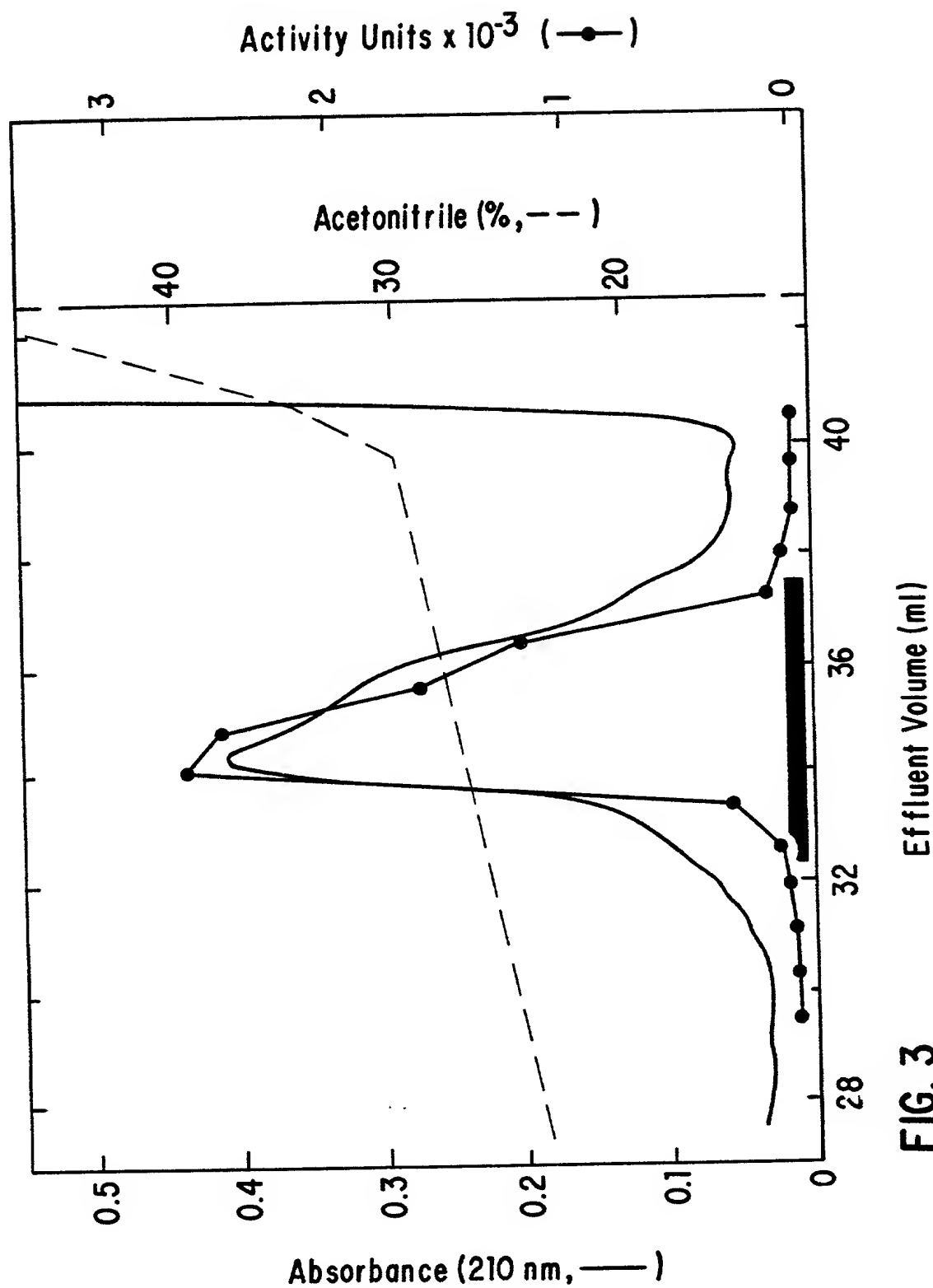


FIG. 3

p5-15  
 GCC AAG TGG TCC CAG GCT GCA CCC ACC ACC ACG GAA GGG GAG CAG AAA GCC CAT GAA GTG GTG  
 21  
 ALA-LYS-TAP-SER-GLN-ALA- [ALA-PRO-THR-THR-GLU-GLY-GLU-GLN-LYS-ALA-HIS-GLU-VAL-VAL-  
 30  
 40  
 127  
 112  
 U11A  
 CB26  
 FIG 4

**FIG. 4**

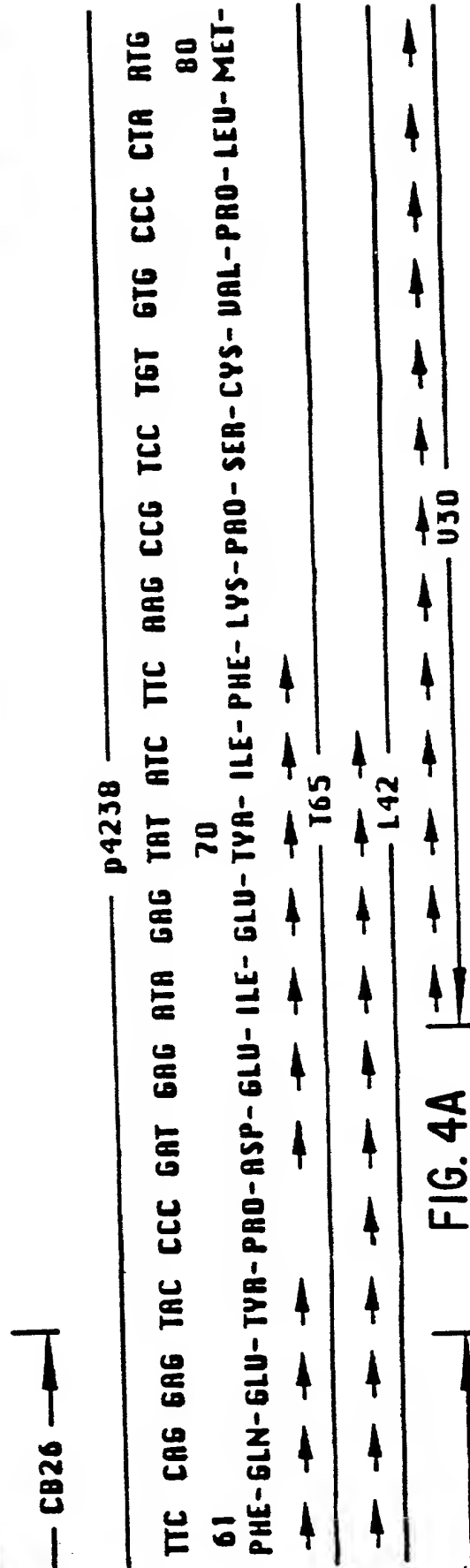
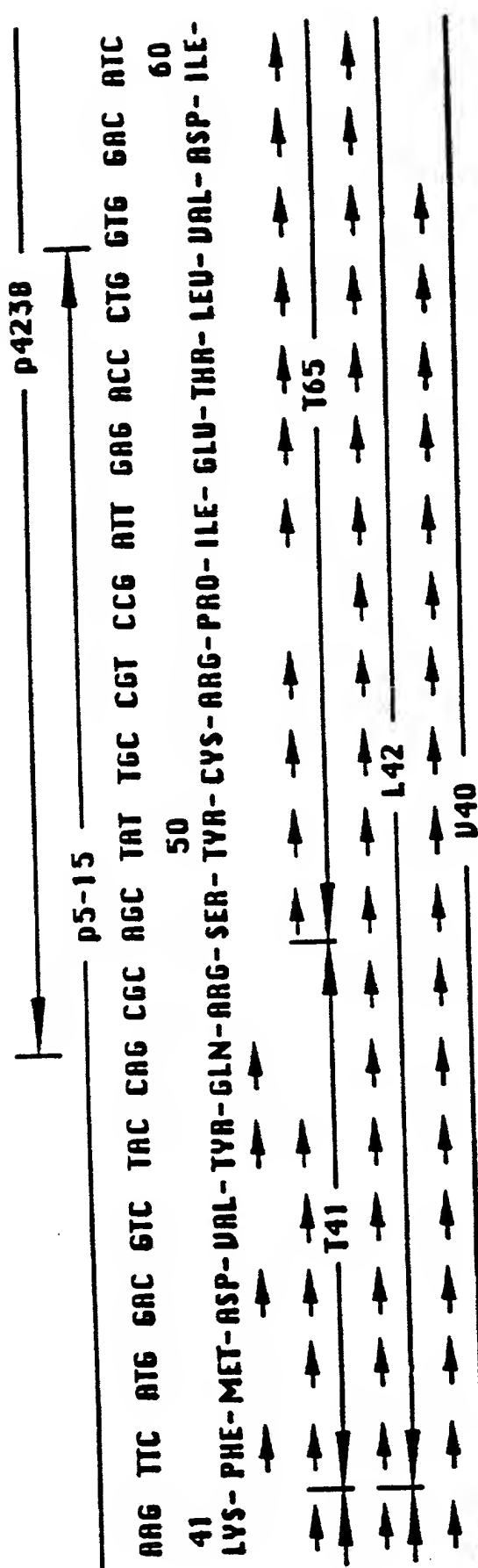


FIG. 4A

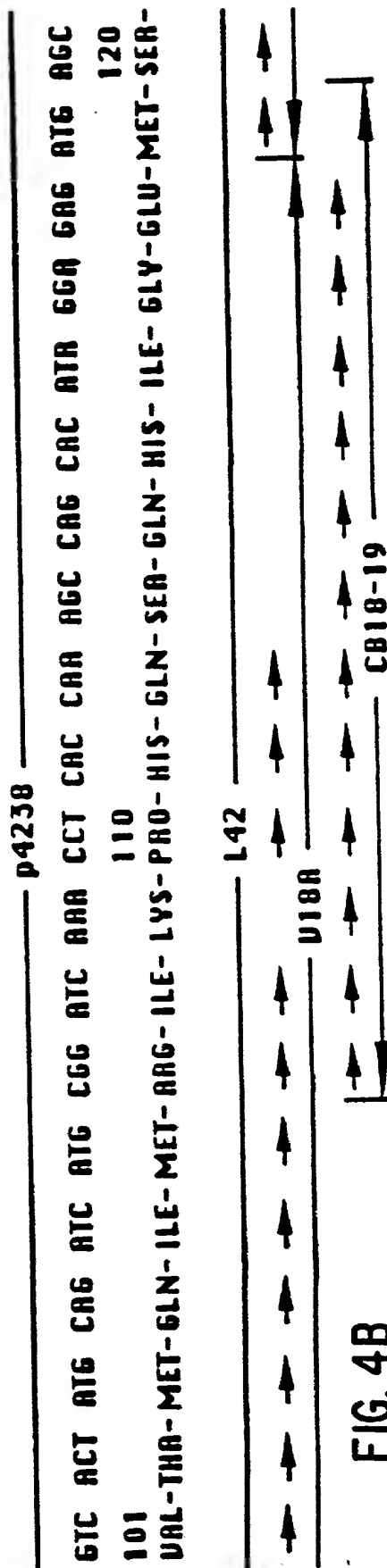
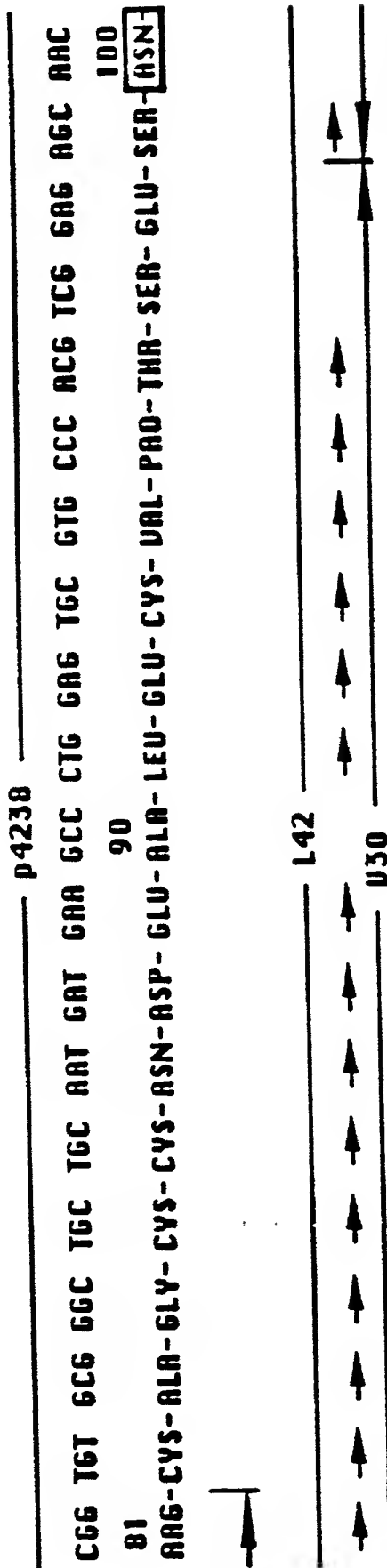


FIG. 4B

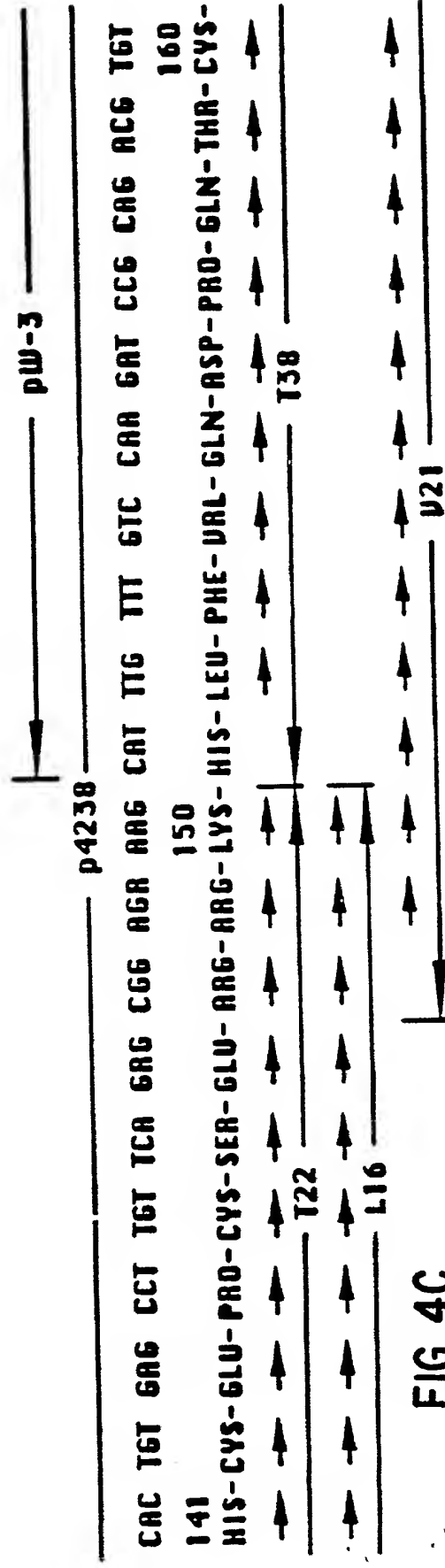
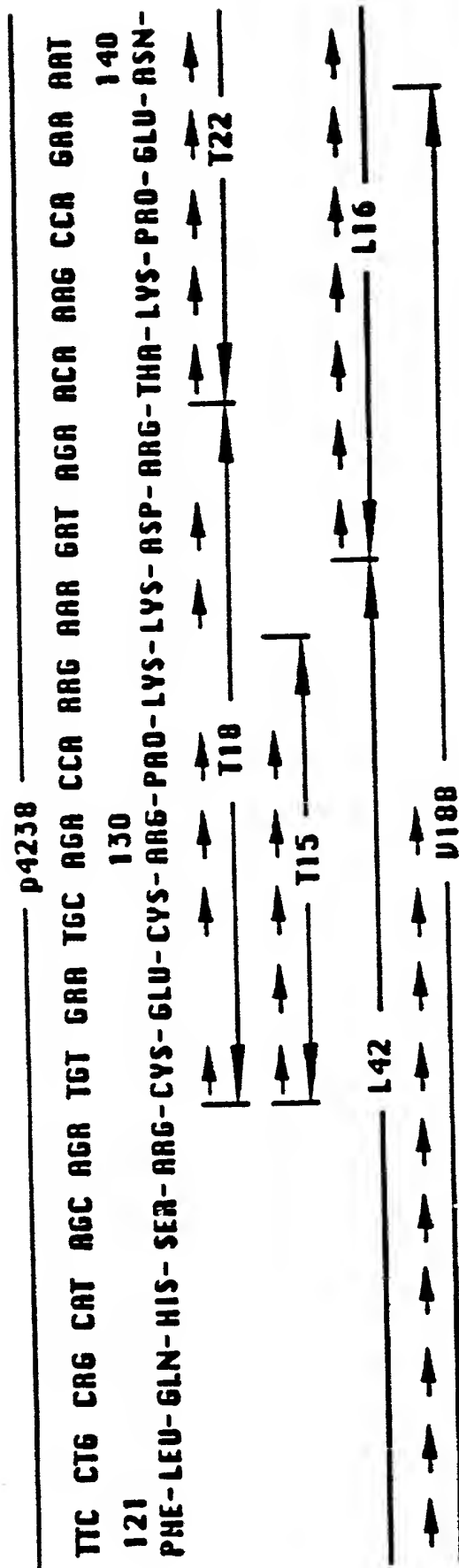


FIG. 4C

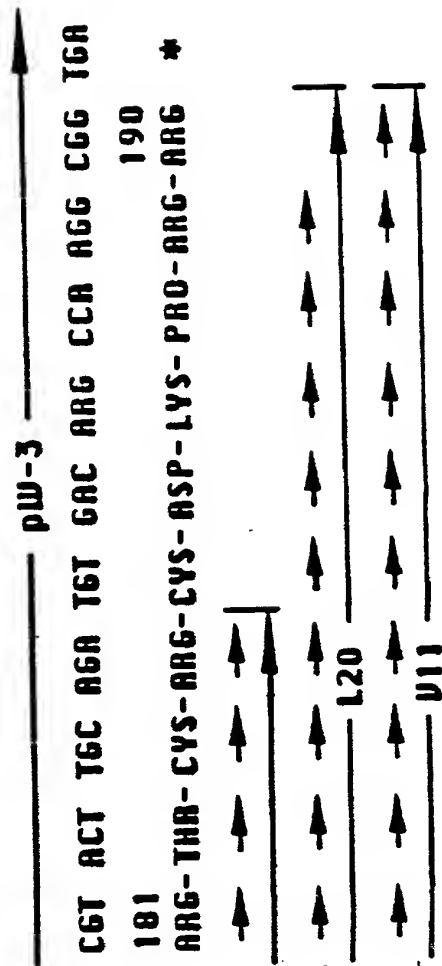
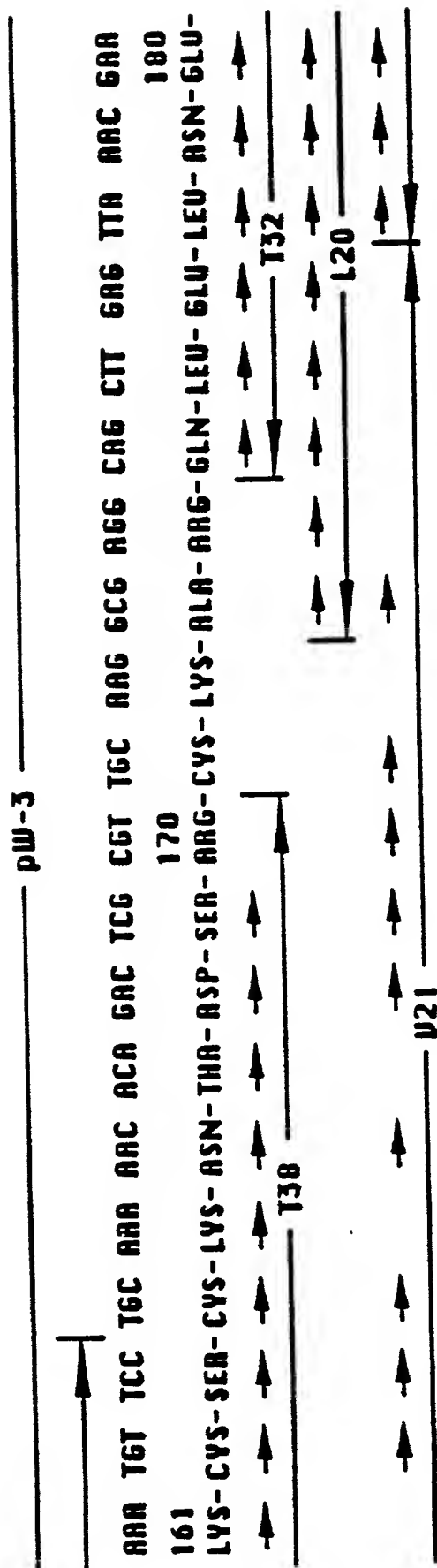


FIG. 4D



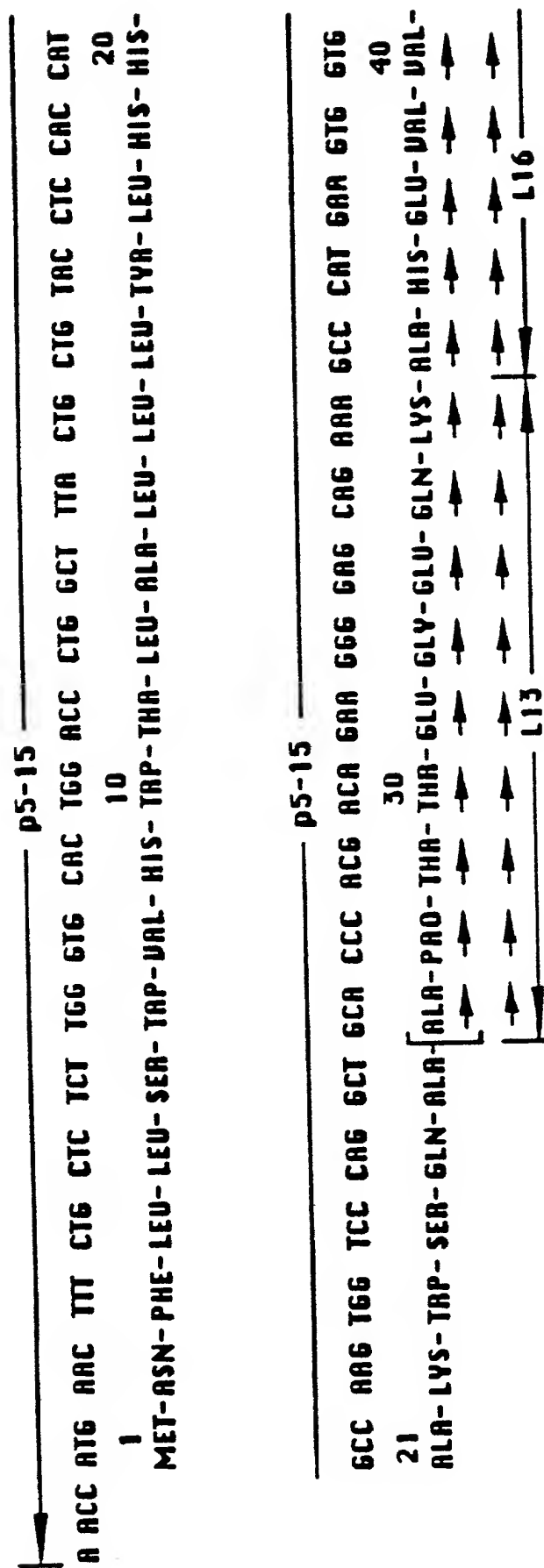
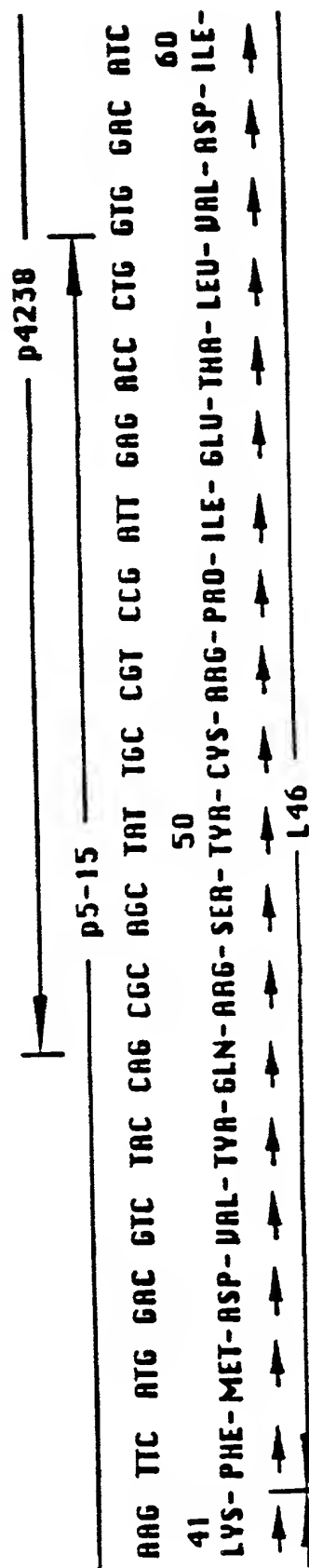


FIG. 4E



p4238  
TTC CAG GAG TAC CCC GAT GAG ATA GAG TAT ATC TTC AAG CCG TCC TGT GTG CCC CTA ATG  
61 80  
PHE-GLN-GLU-TYR-PRO-ASP-GLU-ILE-GLU-TYR-ILE-PHE-LYS-PRO-SER-CYS-VAL-PRO-LEU-MET-  
→ → → → →  
L46

p4238  
CGG TGT GCG GCG TGC TGC AAT GAT GAA GCC CTG GAG TGC GTG CCC ACG TCG GAG AGC AAC  
81 100  
ARG-CYS-ALA-GLY-CYS-CYS-ASN-ASP-GLU-ALA-LEU-GLU-CYS-VAL-PRO-THR-SER-GLU-SER-ASN-  
L46

p4238  
GTC ACT ATG CAG ATC ATG CCG ATC AAA CCT CAC CAA AGC CAG CAC ATA GGA GAG ATG AGC  
101 120  
VAL-THR-MET-GLN-ILE-MET-ARG-ILE-LYS-PRO-HIS-GLN-SER-GLN-HIS-ILE-GLY-GLU-MET-SER-  
L46

FIG. 4F

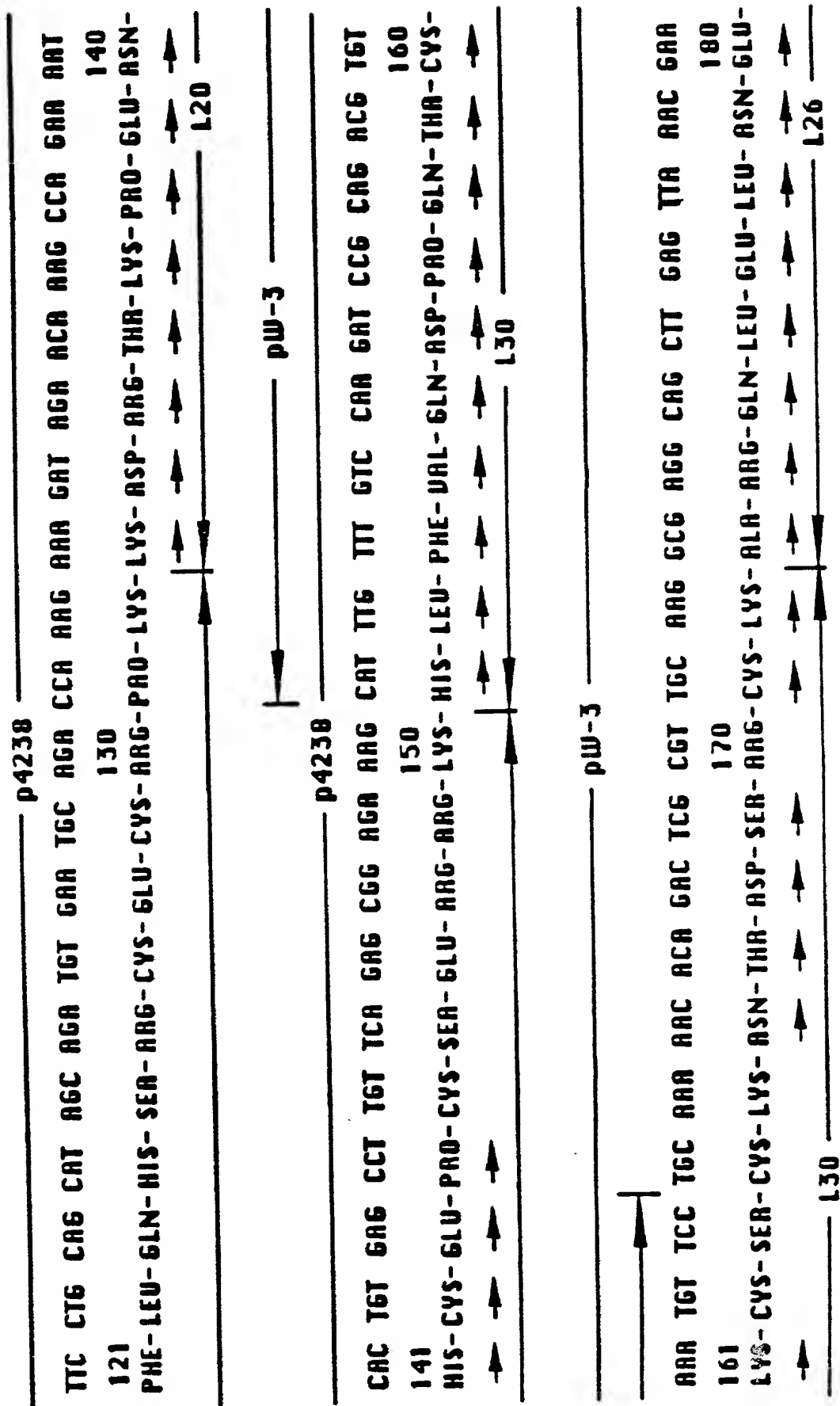


FIG. 4G

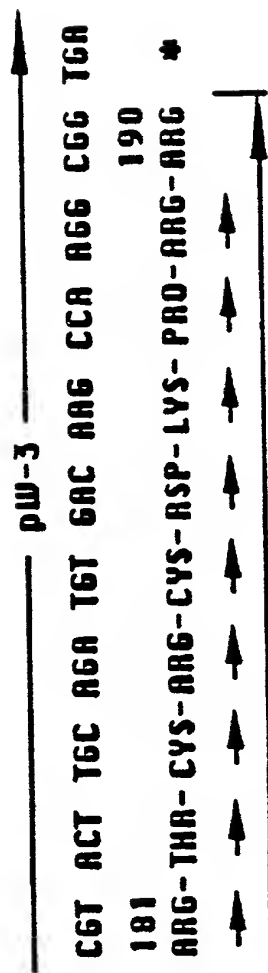
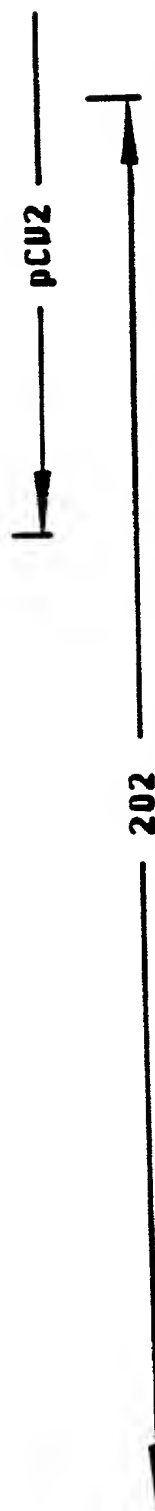


FIG. 4H

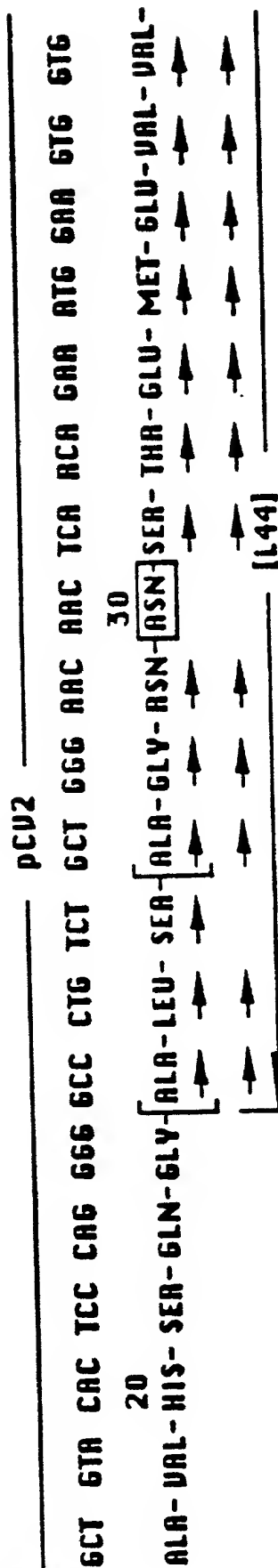


ATG CTG GCC ATG ARG CTG TTC ACT TGC TTC TTG CAG GTC CTA GCT GGG TTG

<sup>1</sup>  
MET-LEU-ALA-MET-LYS-LEU-PHE-THR-CYS-PHE-LEU-GLN-VAL-LEU-ALA-GLY-LEU-

10

FIG. 4I

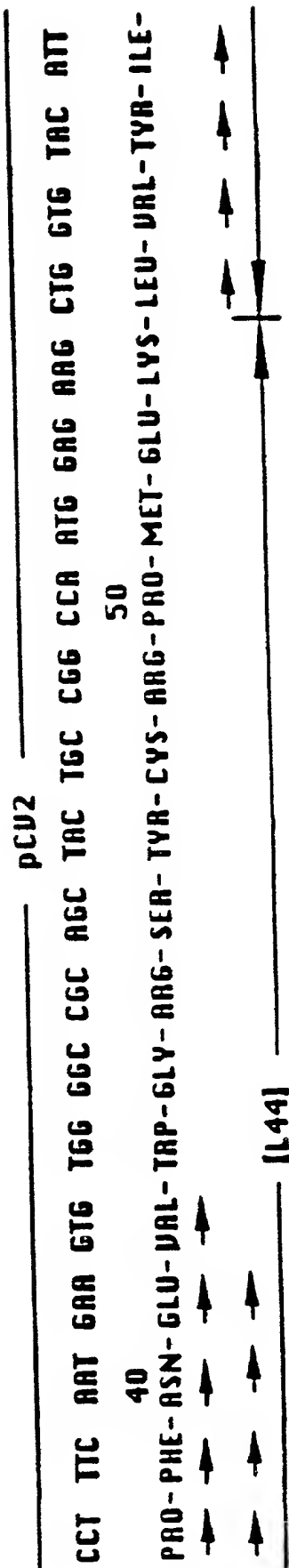


GCT GTA CAC TCC CAG GGG GCC CTG TCT GCT GGG AAC AAC TCA ACA GAA ATG GAA GTG GTG

<sup>20</sup>  
ALA-VAL-HIS-SER-GLN-GLY-ALA-LEU-SER-ALA-GLY-ASN-ASN-SER-THR-GLU-MET-GLU-VAL-VAL-

30

[L44]



CCT TTC AAT GAA GTG TGG GGC CGC AGC TAC TGC CCG CCA ATG GAG AAG CTG GTG TAC ATT

<sup>40</sup>  
PRO-PHE-ASN-GLU-VAL-TRP-GLY-ARG-SER-TYR-CYS-ARG-PRO-MET-GLU-LYS-LEU-VAL-TYR-ILE-

[L44]

PCU2  
 GCA GAT GAA CAC CCT AAT GAA GTG TCT CAT ATA TTC AGT CCG TCA TGT GTC CTT CTG AGT  
 60  
 ALA-ASP-GLU-HIS-PRO-ASN-GLU-VAL-SEA-HIS-ILE-PHE-SER-PRO-SER-CYS-VAL-LEU-LEU-SER-  
 70  
 150

PCU2  
 CGC TGT AGT GGC TGC TGT GGT GAC GAG GGT CTG CAC TGT GTG GCG CTA AAG ACA GCC AAC  
 80  
 ARG-CYS-SER-GLY-CYS-CYS-GLY-ASP-GLU-GLY-LEU-HIS-CYS-VAL-ALA-LEU-LYS-THA-ALA-ASN-  
 90  
 150

PCU2  
 ATC ACT ATG CAG ATC TTA AAG ATT CCC CCC AAT CGG GAT CCA CAT TCC TAC GTG GAG ATG  
 100  
 ILE-THR-MET-GLN-ILE-LEU-LYS-ILE-PRO-PRO-ASN-ARG-ASP-PRO-HIS-SER-TYR-VAL-GLU-MET-  
 110  
 135 [144]

FIG. 4J

PCA TTC TCT CAG GAT GTA CTC TGC GAA TGC AGG CCT ATT CTG GAG ACG ACA AAG GCA GAA  
 120  
 THA-PHE-SER-GLN-ASP-VAL-LEU-CYS-GLU-CYS-ARG-PRO-ILE-LEU-GLU-THA-THA-LYS-ALA-GLU-  
 130  
 [L44]

AGG AAG AAA ACC AAG GGG AAG AAG AGG CAA AGC AAA ACC CCA CAG ACT GAG GAA CCC CAC  
 140  
 ARG-ARG-LYS-THA-LYS-GLY-LYS-ARG-LYS-GLN-SER-LYS-THA-PRO-GLN-THA-GLU-GLU-PRO-HIS-  
 150  
 126

CTG TGA  
 158  
 LEU \*

FIG. 4K

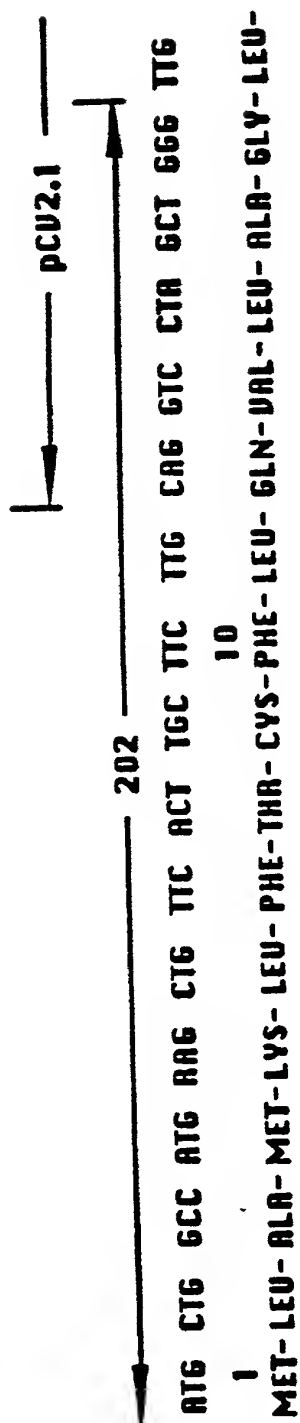


FIG. 4L

pcv2.1

6CT GTA CAC TCC CAG GGG GCC CTG TCT GCT GGG AAC AAC TCA ACA GAA ATG GAA GTG GTG

20 30

ALA-VAL-HIS-SER-GLN-GLY-ALA-LEU-SER-ALA-GLY-ASN-ASN-SER-THR-GLU-MET-GLU-VAL-VAL-

pcv2.1

6CT TTC AAT GAA GTG TGG GGC CGC AGC TAC TGC CGG CCA ATG GAG AAG CTG GTG TAC ATT

40 50

PRO-PHE-ASN-GLU-VAL-TAP-GLY-ARG-SER-TVA-CYS-ARG-PRO-MET-GLU-LYS-LEU-VAL-TVA-ILE-

pcv2.1

GCA GAT GAA CAC CCT AAT GAA GTG TCT CAT ATA TTC AGT CCG TCA TGT GTC CTT CTG AGT

60 70

ALA-ASP-GLU-HIS-PRO-ASN-GLU-VAL-SER-HIS-ILE-PHE-SER-PRO-SER-CYS-VAL-LEU-LEU-SER-



PCV2.1

CGC TGT AGT GGC TGC TGT GGT GAC GAG GGT CTG CAC TGT GTG GCG CTA AAG ACA GCC AAC  
 ARG-CYS-SER-GLY-CYS-CYS-GLY-ASP-GLU-GLY-LEU-HIS-CYS-VAL-ALA-LEU-LYS-THR-ALA-ASN-  
 80 90

PCV2.1

ATC ACT ATG CAG ATC TTA AAG ATT CCC CCC AAT CCG GAT CCA CAT TCC TAC GTG GAG ATG  
 ILE-THR-MET-GLN-ILE-LEU-LYS-ILE-PRO-PRO-ASN-ARG-ASP-PRO-HIS-SER-TYR-VAL-GLU-MET-  
 100 110

PCV2.1

ACA TTC TCT CAG GAT GTA CTC TGC GAA TGC AGG CCT ATT CTG GAG ACG ACA AAG GCA GAA  
 THR-PHE-SER-GLN-ASP-VAL-LEU-CYS-GLU-CYS-ARG-PRO-ILE-LEU-GLU-THR-THR-LYS-ALA-GLU-  
 120 130



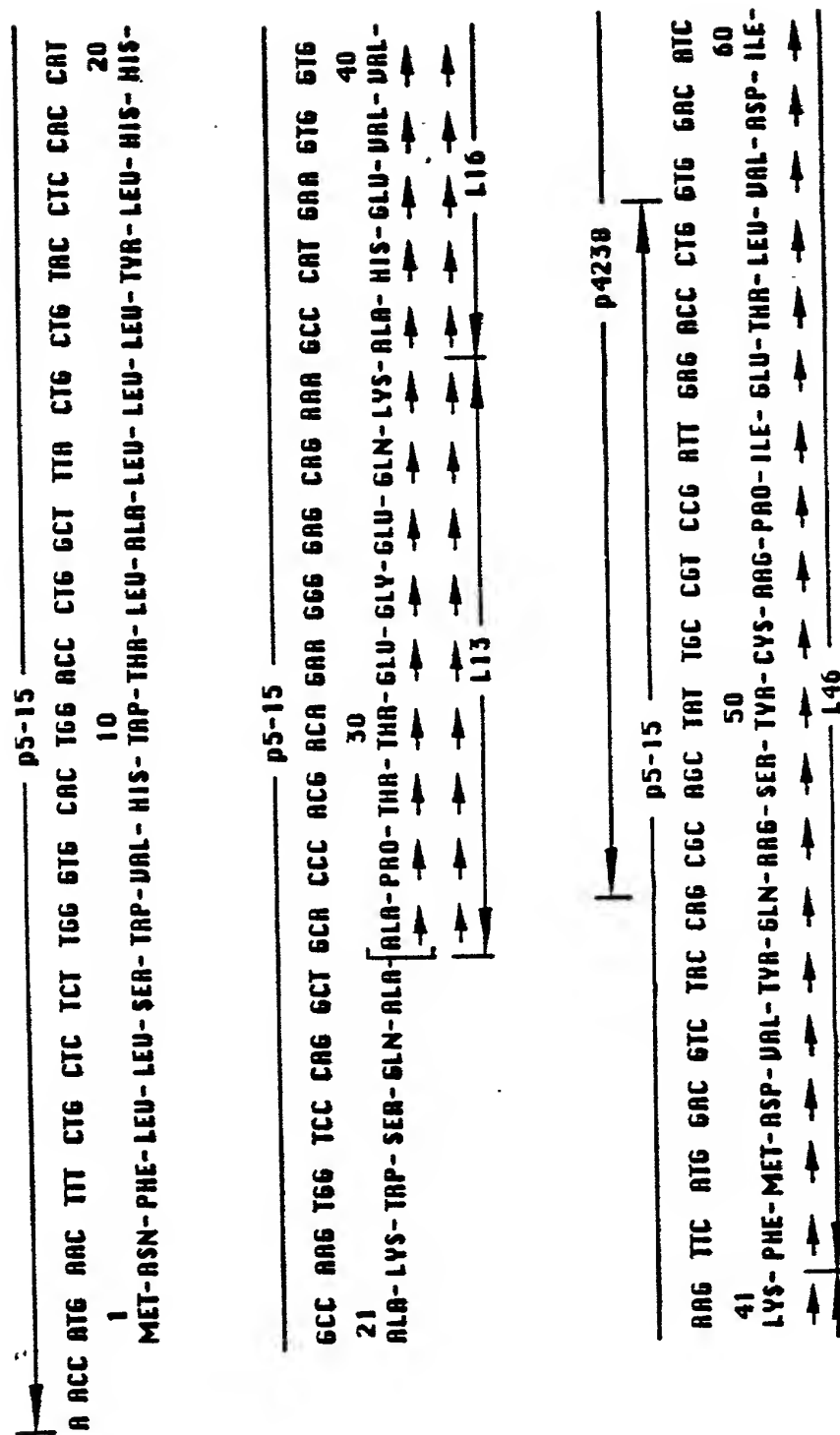
AGG TAA

138

ARG •

FIG. 4M

FIG. 5



p4238

6TC ACT ATG ATG CCG ATC AAA CCT CAC CAG CAG CAA AGC CAC ATA GGA GAG ATG AGC  
101  
UAL-THA-MET-GLN-ILE-MET-ARG-ILE-LYS-PRO-HIS-GLN-SER-GLN-HIS-ILE-GLY-GLU-MET-SER-  
120

p46

FIG. 5 (CONT.)

p4238  
TTC CTG CAG CAT AGC AGA TGT GAA TGC AGA CCA AAG AAA GAT AGA ACA AAG CCA GAA AAT  
121 130 140  
PHE-LEU-GLN-HIS- SER-ARG-CYS-GLU-CYS-ARG-PRO-LYS-LYS-ASP-ARG-THR-LYS-PRO-GLU-ASN-  
120

p4238 pW-3  
CAC TGT GAG CCT TGT TCA GAG CGG AGA AAG CAT TTG TTC CAA GAT CCG CAG ACG TGT  
141 150 160  
HIS-CYS-GLU-PRO-CYS-SER-GLU-ARG-ARG-LYS-HIS-LEU-PHE-VAL-GLN-ASP-PRO-GLN-THR-CYS-  
130

pW-3  
AAA TGT TCC TGC AAA AAC ACA GAC TCG CGT TGC AAG GCG AGG CAG CTT GAG TTA AAC GAA  
161 170 180  
LYS-CYS-SER-CYS-LYS-ASN-THR-ASP-SER-ARG-CYS-LYS-ALA-ARG-GLN-LEU-GLU-LEU-ASN-GLU-  
130 126

FIG. 5 (CONT.)

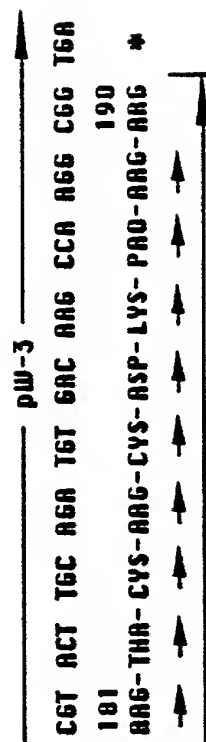
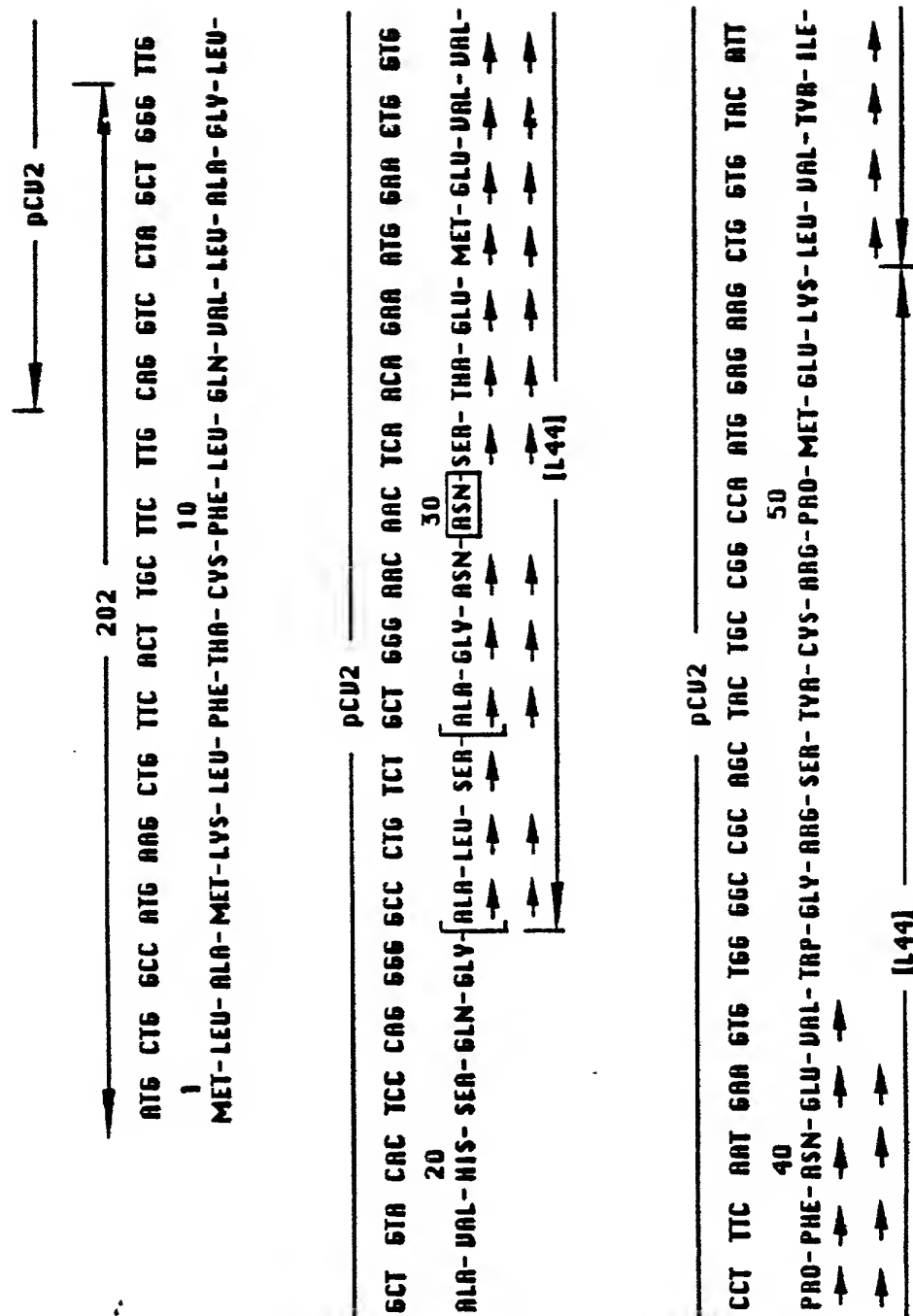


FIG. 6



6CA GAT GAA CAC CCT AAT GAA GTG TCT CAT ATA TTC AGT CCG TCA TGT GTC CTT CTG AGT  
 60 70  
 ALA-ASP-GLU-HIS-PRO-ASN-GLU-VAL-SEA-HIS-ILE-PHE-SEA-PRO-SEA-CYS-VAL-LEU-LEU-SEA-  
 150

PCU2

CGC TGT AGT GGC TGC TGT GGT GAC GAG GGT CTG CAC TGT GTG GCG CTA AAG ACA GCC AAC

80 90

AAG-CYS-SER-GLY-CYS-CYS-GLY-ASP-GLU-GLY-LEU-HIS-CYS-VAL-ALA-LEU-LYS-THR-ALA-ASN-

150

PCU2

ACT ATG CAG ATC TTA AAG ATT CCC CCC AAT CGG GAT CCA CAT TCC TAC GTG GAG ATG

100

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120

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340

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360

370

380

390

400

410

420

430

440

450

460

470

480

490

500

510

520

530

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570

580

590

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610

620

630

640

650

660

670

680

690

700

710

720

730

740

750

760

770

780

790

800

810

820

830

840

850

860

870

880

890

900

910

920

930

940

950

960

970

980

990

1000

1010

1020

1030

1040

1050

1060

1070

1080

1090

1100

1110

1120

1130

1140

1150

1160

1170

1180

1190

1200

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1600

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2110

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2170

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2190

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2500

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2800

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2860

2870

2880

2890

2900

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2960

2970

2980

2990

3000

3010

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3090

3100

3110

3120

3130

3140

3150

3160

3170

3180

3190

3200

3210

3220

3230

3240

3250

3260

3270

3280

3290

3300

3310

3320

3330

3340

3350

3360

3370

3380

3390

3400

3410

3420

3430

3440

3450

3460

3470

3480

3490

3500

3510

3520

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3540

3550

3560

3570

3580

3590

3600

3610

3620

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3640

3650

3660

3670

3680

3690

3700

3710

3720

3730

3740

3750

3760

3770

3780

3790

3800

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3860

3870

3880

3890

3900

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3920

3930

3940

3950

3960

3970

3980

3990

4000

4010

4020

4030

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4060

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4080

4090

4100

4110

4120

4130

4140

4150

4160

4170

4180

4190

4200

4210

4220

4230

4240

4250

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4270

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4290

4300

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4370

4380

4390

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4490

4500

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4530

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4550

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4570

4580

4590

4600

4610

4620

4630

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4650

4660

4670

4680

4690

<

FIG. 6 (CONT.)

ACA TTC TCT CAG GAT GTA CTC TGC GAA TGC AGG CCT ATT CTG GAG ACG ACA ARG GCA GAA  
 120  
 THA-PHE-SER-GLN-ASP-VAL-LEU-CYS-GLU-CYS-ARG-PRO-ILE-LEU-GLU-THA-THA-LYS-ALA-GLU-  
 [L44]

AGG AGG AAA ACC ARG GGG ARG AGG ARG CAA AGC AAA ACC CCA CAG ACT GAG GAA CCC CAC  
 140  
 ARG-ARG-LYS-THA-LYS-GLY-LYS-ARG-LYS-GLN-SER-LYS-THA-PRO-GLN-THA-GLU-GLU-PRO-HIS-  
 150  
 L26

CTG TGA  
 158  
 LEU



FIG. 7

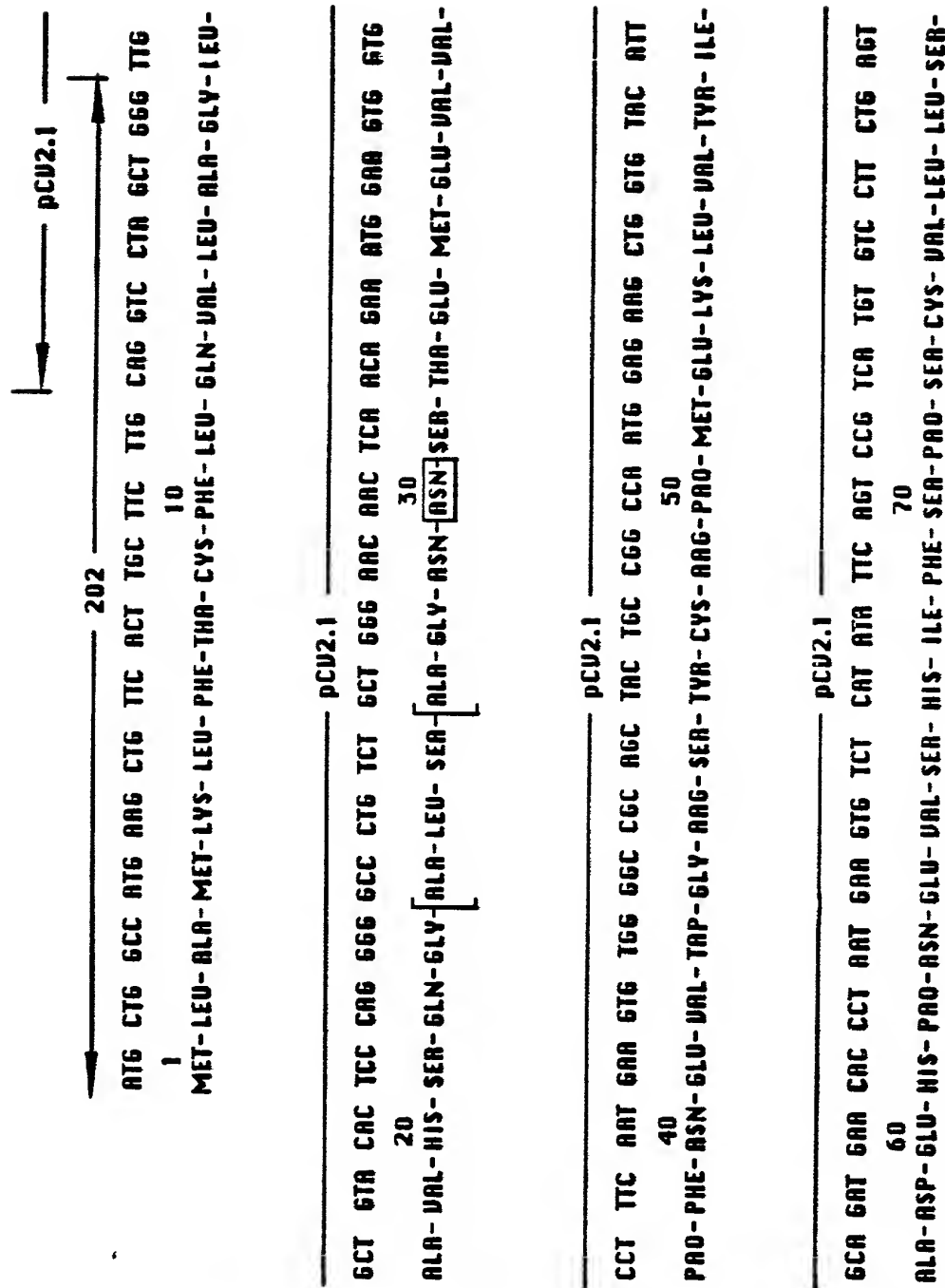


FIG. 7 (CONT.)

CGC TGT AGT GGC TGC TGT GGT GAC GAG GGT CTG CAC TGT GTG GCG CTA ARG ACA GCC AAC  
 80  
 ARG-CYS-SER-GLY-CYS-CYS-GLY-ASP-GLU-GLY-LEU-HIS-CYS-VAL-ALA-LEU-LYS-THR-ALA-ASN

ATC ACT ATG CAG ATC TTA ARG ATT CCC CCC AAT CCG GAT CCA CAT TCC TAC GTG GAG ATG  
 100  
 ILE-THR-MET-GLN-ILE-LEU-LYS-ILE-PRO-PRO-ASN-ARG-ASP-PRO-HIS-SER-TYR-VAL-GLU-MET

ACA TTC TCT CAG GAT GTA CTC TGC GAA TGC AGG CCT ATT CTG GAG ACG ACA AAG GCA GAA  
 120  
 THR-PHE-SER-GLN-ASP-VAL-LEU-CYS-GLU-CYS-ARG-PRO-ILE-LEU-GLU-THR-THR-LYS-ALA-GLU

→  
 AGG TAA  
 138  
 ARG •

Figure 8A

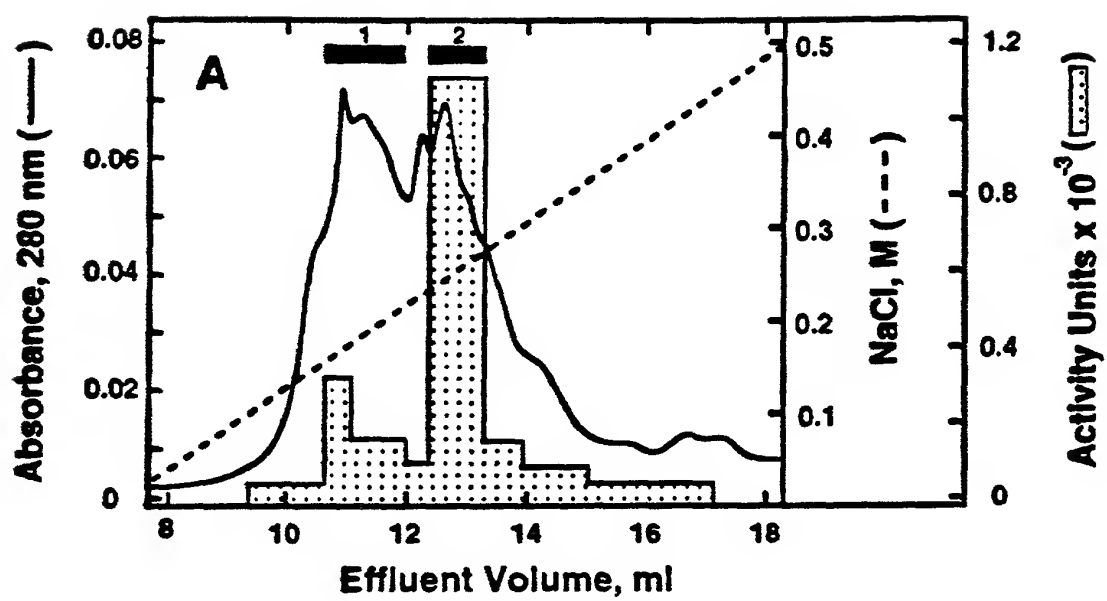


Figure 8B

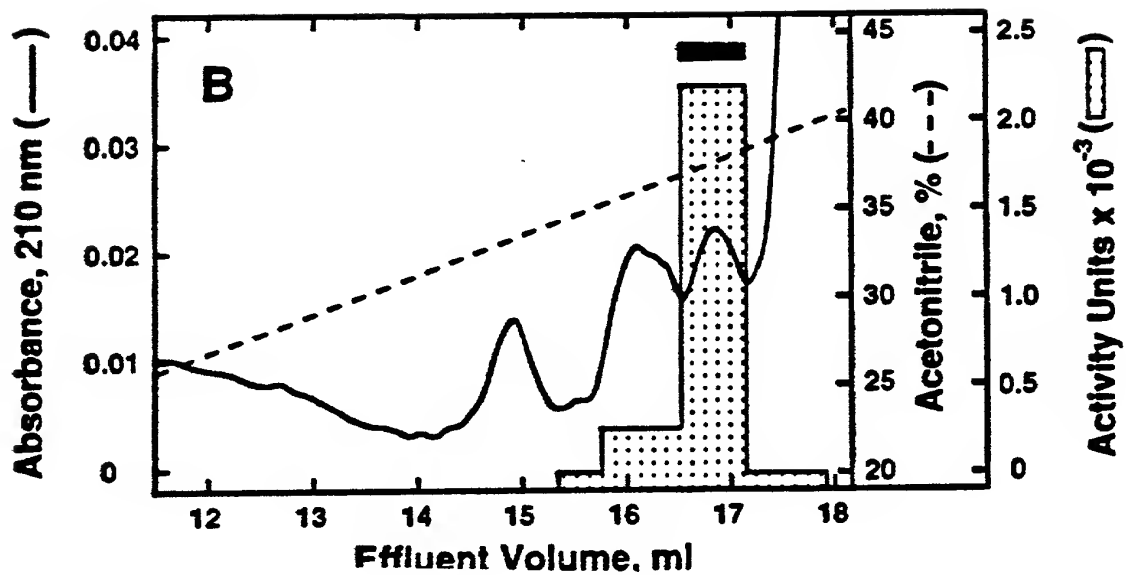


Figure 8C

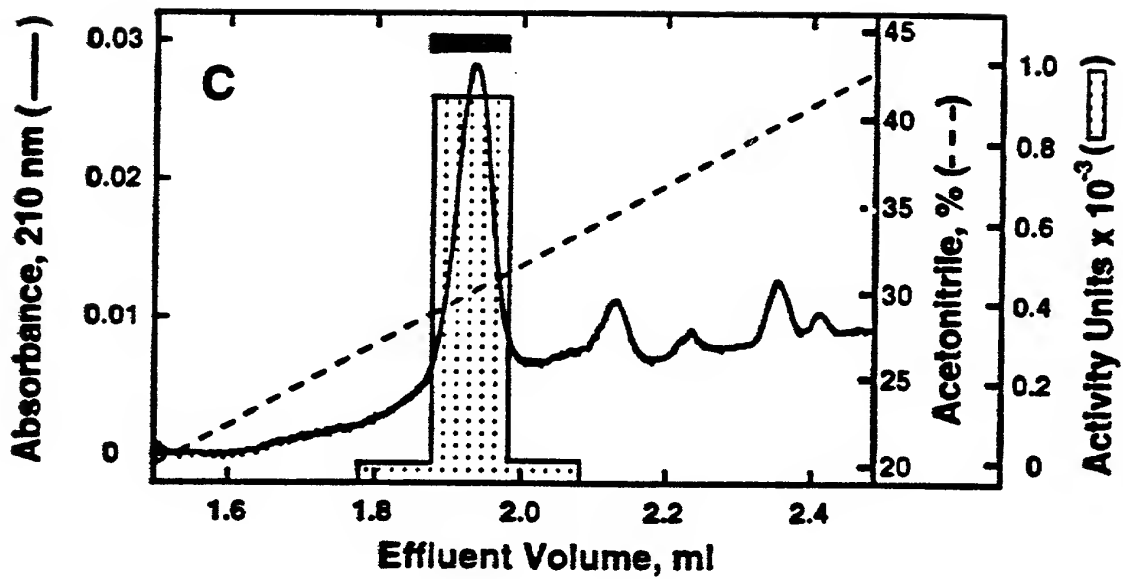


Figure 9A

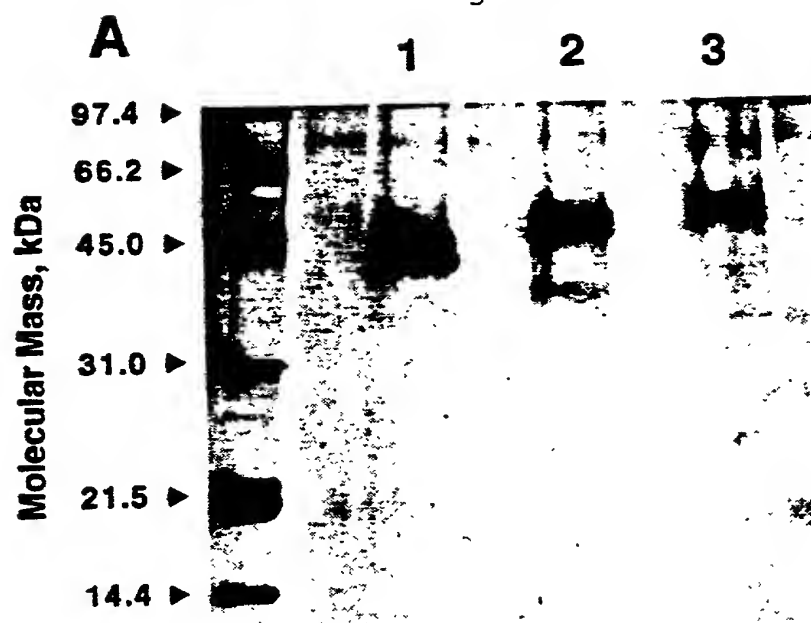


Figure 9B

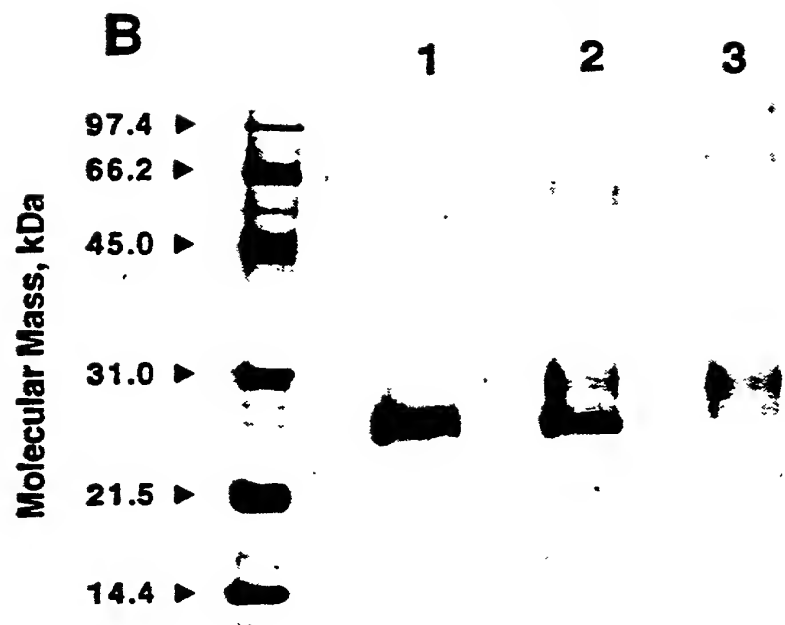


Figure 10A

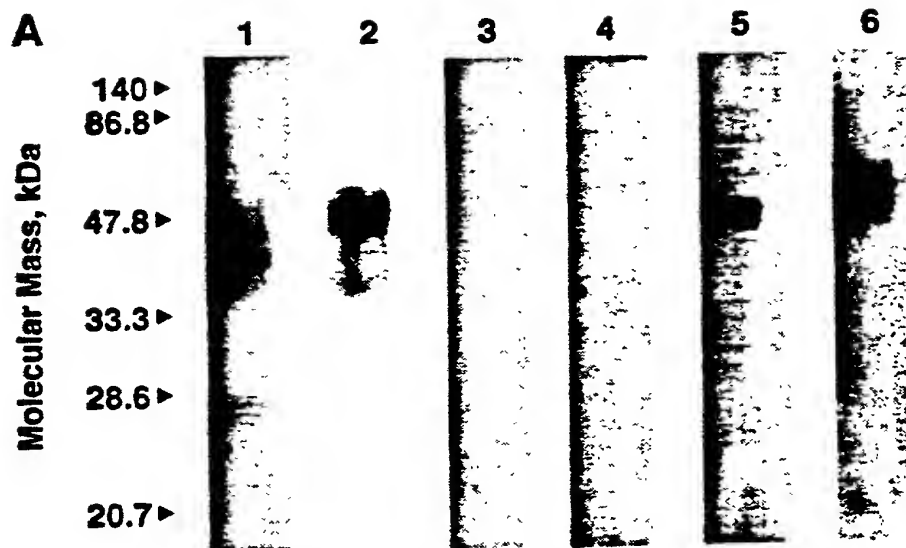
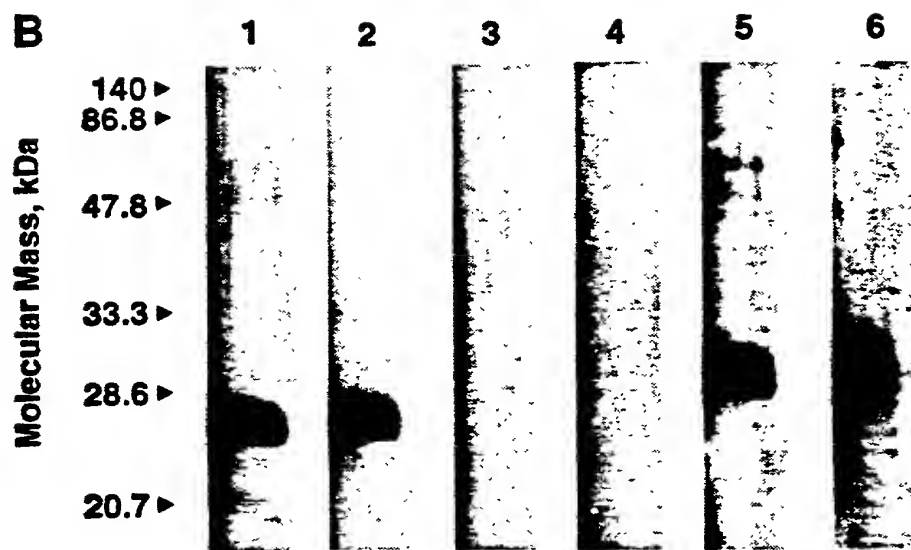




Figure 10B



208020" 0/ET/001

Figure 11

